

In the Claims

Claims 1-100 were pending at the time of the Office Action.

Claims 42-99 are withdrawn from consideration.

Claims 1, 2, 15, 16 and 41 are hereby amended.

Claims 1-100 remain pending.

1. (CURRENTLY AMENDED) A system, comprising:

a body portion;

an extending part with a proximal end piece and one or more distal end pieces and wherein the proximal end piece is coupled to the body portion, the one or more distal end pieces are configured to insert into an animal, and the one or more distal end pieces are configured to controllably telescopically extend from the proximal end piece;

at least one receiving body in communication with the extending part;

two or more sensors, wherein the sensors are arranged to change a distance between at least two of the sensors as the one or more distal end pieces telescopically extend; and

a control circuit coupled to the receiving body and/or the extending part.

2. (CURRENTLY AMENDED) The system of Claim 1, wherein two or more distal end pieces each comprise the extending part comprises:

a porthole which is opened or closed to selectively provide communication from the exterior of each distal end piece to within the extended part or main body and arranged through which to retract and deploy the sensor two or more distal end pieces configured to controllably telescopically extend from the proximal end piece.

3. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the one or more distal end pieces are configured to slidably collapse within an interior of the proximal end piece.

4. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the extending part further comprises:
 - a uniform, increasing, and/or decreasing size and/or dimension for traveling the interior of a blood vessel.
5. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the extending part further comprises:
 - a hollow portion.
6. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the extending part further comprises:
 - a size and/or dimension wherein a diameter of the one or more distal end pieces are less than a size and/or dimension of the proximal end piece.
7. (PREVIOUSLY PRESENTED) The system of Claim 6, wherein the extending part further comprises:
 - a twofold decrease in a diameter between the proximal end piece and the one or more distal end pieces.
8. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein a distal end of each piece is less than a size and/or dimension of a proximal end of each piece.
9. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the system further comprises:
 - a pump, and/or a source of pressure coupled to the extending part.
10. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the system further comprises:

a motor and/or an actuator coupled to the extending part.

11. (ORIGINAL) The system of Claim 1, wherein the system comprises:
a polymer operative for converting a first form of energy to a second form
of energy.

12. (ORIGINAL) The system of Claim 11, wherein the system comprises:
a polymer operative for converting electrical energy to mechanical energy.

13. (ORIGINAL) The system of Claim 11, wherein the system comprises:
a polymer operative for converting mechanical energy to electrical energy.

14. (ORIGINAL) The system of Claim 1, wherein the extending part comprises:
a polymer operative for converting one form of energy to a new form of
energy.

15. (CURRENTLY AMENDED) The system of Claim 1, wherein the extending
part comprises:
a polymer that converts one form of energy to a new form of energy
operative for moving fluid through the extending part.

16. (CURRENTLY AMENDED) The system of Claim 1, wherein the extending
part comprises
a polymer that converts one form of energy to a new form of energy
operative for providing a peristaltic wave motion for [[and]]
moving a fluid.

17. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the system further comprises:

an imager, a pressure sensor, a temperature sensor, a chemical sensor, a gas sensor, an electrolyte sensor, a composition sensor, a concentration sensor, and/or a flow sensor coupled to the extending part.

18. (ORIGINAL) The system of Claim 1, wherein the system further comprises:
a wireless interface coupled to the control circuit.

19. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the system further comprises:

a wireless data transmitter coupled to the control circuit and/or the extended part.

20. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the system further comprises:

a wireless data receiver, and/or a wireless data controller coupled to the extended part and/or the control circuit.

21. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the at least one receiving body comprises:

a source of a chemical, a chemical compound, a protein, a lipoprotein, a glycoprotein, a sugar, a lipid, an antigen, an antibody, a cytokine, a peptide, a neurotransmitter, a hormone, an ion, a messenger molecule, a nucleic acid, an engineered nucleic acid, a nucleic acid vector, a drug, a cell, a cell fragment, a cell organelle, a liposome, a pharmaceutical agent, a biological material, and/or a biological fraction internal and/or external to the at least one receiving body.

22. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the at least one receiving body comprises:

a source of two or more of a chemical, a chemical compound, a protein, a lipoprotein, a glycoprotein, a sugar, a lipid, an antigen, an antibody, a cytokine, a peptide, a neurotransmitter, a hormone, an ion, a messenger molecule, a nucleic acid, an engineered nucleic acid, a nucleic acid vector, a drug, a cell, a cell fragment, a cell organelle, a liposome, a pharmaceutical agent, a biological material, and/or a biological fraction internal and/or external to the at least one receiving body.

23. (ORIGINAL) The system of Claim 1, wherein the system further comprises:

a functional tool coupled to the extended part.

24. (ORIGINAL) The system of Claim 23, wherein the functional tool further comprises:

a tool positioner.

25. (PREVIOUSLY PRESENTED) The system of Claim 23, wherein the functional tool further comprises:

a tool for ablating, degrading and/or liquefying a cell, a mass of cells, a tissue, and/or an assembly of biological materials exhibiting shear strength.

26. (ORIGINAL) The system of Claim 23, wherein the functional tool further comprises:

a second control circuit for guiding the functional tool coupled to the control circuit.

27. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the extended part further comprises:

a source of an electric charge and/or electromagnetic radiation coupled or carried by the extended part.

28. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the extended part further comprises:

a device for fully, partially blocking, guiding, and/or shunting a liquid flow.

29. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the system further comprises:

a tool for cauterizing and/or sealing a cell, a mass of cells, a tissue, and/or an assembly of biological materials exhibiting shear strength coupled to and/or carried by the extended part.

30. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the system further comprises:

a fluid dispenser coupled to and/or carried by the extended part.

31. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the system further comprises:

a stent coupled to and/or carried by the extended part.

32. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the control circuit comprises:

a configuration operative for controlling, guiding and/or positioning the extended part.

33. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the control circuit comprises:

a processor, a feedback circuit, and/or a logic circuit.

34. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the control circuit further comprises:

a processor further comprising a stored software and/or firmware program cooperative with the processor.

35. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the system further comprises:

a size, composition, shape, power dissipation level, and/or a configuration for implantation in an animal.

36. (ORIGINAL) The system of Claim 35, wherein the animal comprises:

a human.

37. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the system further comprises:

a configuration for placing in a location and operative for monitoring and/or treating one or more physiological variables.

38. (PREVIOUSLY PRESENTED) The system of Claim 37, wherein the location comprises:

a circulatory system, an abdominal aorta, a vena cava, and/or a nervous system.

39. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the system comprises:

a configuration for monitoring and/or treating a response in an animal.

40. (PREVIOUSLY PRESENTED) The system of Claim 1, wherein the system further comprises:

a medicinal agent, a pharmaceutical agent, a therapeutic device and/or assembly carried by the extending part to a location in an animal.

41. (CURRENTLY AMENDED) The system of Claim 1, wherein the system comprises:

a configuration for communicating to the exterior of [[to]] a patient.

42. (WITHDRAWN) A method of making a device for perfusion management, comprising:

forming a hollow part for storing a receivable;

coupling a flexible finger to the hollow part and configuring the flexible finger for extending from the hollow part to a location in an animal; and

coupling the flexible finger to the hollow portion and to a control system including logic or software operable for delivering the receivable from the hollow part to the location in the animal.

43. (WITHDRAWN) The method of Claim 42, wherein the flexible finger further comprises:

a plurality of hollow sliding parts.

44. (WITHDRAWN) The method of Claim 43, wherein the flexible finger further comprises:

inwardly or outwardly sliding parts.

45. (WITHDRAWN) The method of Claim 43 wherein the method further comprises:

forming the flexible finger including the plurality of hollow sliding parts with a uniform, increasing, or decreasing size or dimensions for traveling the interior of a blood vessel.

46. (WITHDRAWN) The method of Claim 43, wherein the method further comprises:

forming the flexible finger including the plurality of hollow sliding parts with a size or dimension wherein the diameter of a distal hollow sliding part is less than the size or dimension of an adjacent proximal hollow sliding part.

47. (WITHDRAWN) The method of Claim 43, wherein the method further comprises:

forming a two-fold decrease in a diameter of each of a successive hollow sliding part.

48. (WITHDRAWN) The method of Claim 43, wherein the method further comprises:

forming the flexible finger including the plurality of hollow sliding parts wherein the plurality of hollow sliding parts comprises a distal end and a proximal end and wherein the distal end of each sliding part is less than the size or dimension of the proximal end of each sliding part.

49. (WITHDRAWN) The method of Claim 42, wherein the method further comprises:

coupling a pump, or a source of pressure to the flexible finger.

50. (WITHDRAWN) The method of Claim 42, wherein the method further comprises:
coupling a motor or an actuator to the flexible finger.
51. (WITHDRAWN) The method of Claim 42, wherein the method further comprises:
including a polymer coupled to the flexible finger operative for converting a first form of energy to a second form of energy.
52. (WITHDRAWN) The method of Claim 42, wherein the method further comprises:
including a polymer coupled to the flexible finger operative for converting electrical energy to mechanical energy.
53. (WITHDRAWN) The method of Claim 42, wherein the method further comprises:
providing a polymer coupled to the flexible finger operative for converting one form of energy to a new form of energy and moving a fluid through the flexible finger.
54. (WITHDRAWN) The method of Claim 42, wherein the method further comprises:
including a polymer coupled to the flexible finger operative for converting one form of energy to a new form of energy operative for providing a peristaltic wave and moving a fluid.
55. (WITHDRAWN) The method of Claim 42, wherein the method further comprises:
providing a sensor coupled to or carried by the flexible finger.

56. (WITHDRAWN) The method of Claim 42, wherein the method comprises:
coupling an imager, a pressure sensor, a temperature sensor, a chemical
sensor, a gas sensor, an electrolyte sensor, a composition sensor, a
concentration sensor, or a flow sensor to the flexible finger.
57. (WITHDRAWN) The method of Claim 42, wherein the method comprises:
providing a wireless interface coupled to the control system.
58. (WITHDRAWN) The method of Claim 42, wherein the method comprises:
coupling a wireless data transmitter coupled to the control system or the
flexible finger.
59. (WITHDRAWN) The method of Claim 42, wherein the method comprises:
coupling a wireless data receiver, or a wireless data controller to the
flexible finger or the control system.
60. (WITHDRAWN) The method of Claim 42, wherein the method comprises:
coupling a source of a chemical, a chemical compound, a protein, a
lipoprotein, a glycoprotein, a sugar, a lipid, an antigen, an antibody,
a cytokine, a peptide, a neurotransmitter, a hormone, an ion, a
messenger molecule, a nucleic acid, an engineered nucleic acid, a
nucleic acid vector, a drug, a cell, a cell fragment, a cell organelle,
a liposome, a pharmaceutical agent, a biological material, or a
biological fraction internal or external to the hollow part.

61. (WITHDRAWN) The method of Claim 42, wherein the method comprises:
coupling a source of two or more of a chemical, a chemical compound, a protein, a lipoprotein, a glycoprotein, a sugar, a lipid, an antigen, an antibody, a cytokine, a peptide, a neurotransmitter, a hormone, an ion, a messenger molecule, a nucleic acid, an engineered nucleic acid, a nucleic acid vector, a drug, a cell, a cell fragment, a cell organelle, a liposome, a pharmaceutical agent, a biological material, or a biological fraction internal or external to the hollow part.
62. (WITHDRAWN) The method of Claim 1, wherein the method further comprises:
including a functional tool coupled to or carried by the flexible finger.
63. (WITHDRAWN) The method of Claim 62, wherein the functional tool further comprises:
including a tool positioner carried by the flexible finger.
64. (WITHDRAWN) The method of Claim 62, wherein the functional tool further comprises:
including a tool for ablating, degrading or liquefying a cell, a mass of cells, a tissue, or an assembly of biological materials exhibiting shear strength coupled to the flexible finger.
65. (WITHDRAWN) The method of Claim 62, wherein the functional tool further comprises
providing a tool for cauterizing or sealing a cell, a mass of cells, a tissue, or an assembly of biological materials exhibiting shear strength coupled to or carried by the flexible finger.

66. (WITHDRAWN) The method of Claim 62, wherein the method comprises:
providing a control circuit for guiding the functional tool coupled to the
control circuit.
67. (WITHDRAWN) The method of Claim 42, wherein the method further
comprises:
providing a source of an electric charge or electromagnetic radiation
coupled or carried by the flexible finger.
68. (WITHDRAWN) The method of Claim 42, wherein the method further
comprises:
providing a device for fully, partially blocking, guiding, or shunting a
liquid flow coupled to the flexible finger.
69. (WITHDRAWN) The method of Claim 42, wherein the method further
comprises:
providing a fluid dispenser coupled to or carried by the flexible finger.
70. (WITHDRAWN) The method of Claim 42, wherein the method further
comprises:
providing a stent coupled to or carried by the flexible finger.
71. (WITHDRAWN) The method of Claim 42, wherein the method comprises:
forming a configuration operative for controlling, guiding or positioning
the flexible part and coupled to the control system.
72. (WITHDRAWN) The method of Claim 42, wherein the method further
comprises:
providing a processor, a logic circuit, or a feedback circuit coupled to the
control system.

73. (WITHDRAWN) The method of Claim 42, wherein the method further comprises:

providing a processor further comprising a stored software or firmware program cooperative with the processor.

74. (WITHDRAWN) The method of Claim 42, wherein the method further comprises:

forming the device for perfusion management with a size, composition, shape, power dissipation level, or configuration for implantation in an animal.

75. (WITHDRAWN) The method of Claim 42, wherein the method further comprises:

forming the device for perfusion management having a size, composition, shape, power dissipation level, or configuration for implantation in animal wherein the animal is a human.

76. (WITHDRAWN) The method of Claim 42, wherein the method further comprises:

forming the device for perfusion management having a configuration for placing in a location and operative for monitoring or treating one or more physiological variables.

77. (WITHDRAWN) The method of Claim 76, wherein the method further comprises:

forming the device for perfusion management having a configuration for placing in the location and operative for monitoring or treating one or more physiological variables and wherein the location is a circulatory system, an abdominal aorta, a vena cava, or a nervous system.

78. (WITHDRAWN) The method of Claim 42, wherein the method further comprises:
forming the device for perfusion management having a configuration for monitoring or treating a response in an animal.
79. (WITHDRAWN) The method of Claim 42, wherein the method further comprises:
forming the device for perfusion management having a configuration for delivering a medicinal agent, a pharmaceutical agent, a therapeutic device or assembly to a location in an animal.
80. (WITHDRAWN) The system of Claim 42, wherein the method comprises:
configuring the device for perfusion management for communicating exterior to a patient.
81. (WITHDRAWN) A method for perfusion management, comprising:
storing a receivable in a cavity;
extending a tractable conduit between the cavity and a location in an animal; and
delivering the receivable to the location in the animal.
82. (WITHDRAWN) The method of Claim 81, wherein the method further comprises:
guiding, positioning, or directing the tractable conduit for traveling the interior of a blood vessel.
83. (WITHDRAWN) The method of Claim 81, wherein the method further comprises:
charging a polymer to make a wave motion and move contents of the tractable conduit or the cavity.

84. (WITHDRAWN) The method of Claim 81, wherein the method further comprises:
charging a polymer to perform an action.
85. (WITHDRAWN) The method of Claim 81, wherein the method comprises:
imaging, or detecting a level of pressure, temperature, chemical, gas, electrolyte, composition, concentration, or flow.
86. (WITHDRAWN) The method of Claim 81, wherein the method further comprises:
delivering chemicals, chemical compounds, proteins, lipoproteins, glycoproteins, sugars, lipids, antigens, antibodies, cytokines, peptides, neurotransmitters, hormones, ions, messenger molecules, nucleic acids, engineered nucleic acids, nucleic acid vectors, drugs, cells, cell fragments, cell organelles, liposomes, pharmaceutical agents, biological materials, or biological fractions in proximity to the location in the animal.
87. (WITHDRAWN) The method of Claim 81, wherein the method further comprises:
performing one or more operations or actions.
88. (WITHDRAWN) The method of Claim 81, wherein the method further comprises:
positioning tools in the animal.
89. (WITHDRAWN) The method of Claim 81, wherein the method further comprises:
fully or partially blocking or shunting a liquid flow.

90. (WITHDRAWN) The method of Claim 81, wherein the method further comprises:
ablating, degrading, or liquefying a cell, a mass of cells, a tissue, or an assembly of biological materials exhibiting shear strength.
91. (WITHDRAWN) The method of Claim 81, wherein the method further comprises:
capturing a cell, a tissue, a fluid, a gel, a sample, a colloid, and emulsion, a debris, a contaminant, or a biological material.
92. (WITHDRAWN) The method of Claim 81, wherein the method further comprises:
sampling a cell, a mass of cells, a tissue, or an assembly of biological materials exhibiting shear strength.
93. (WITHDRAWN) The method of Claim 81, wherein the method further comprises:
cauterizing or sealing a cell, a mass of cells, a tissue, or an assembly of biological materials exhibiting shear strength.
94. (WITHDRAWN) The method of Claim 81, wherein the method further comprises:
dispensing a fluid at a controlled rate.
95. (WITHDRAWN) The method according to Claim 81, wherein the method further comprises:
controlling or guiding the tractable conduit.

96. (WITHDRAWN) The method according to Claim 81, wherein the method further comprises:

configuring the device for perfusion management for placing in the animal wherein the animal is a human.

97. (WITHDRAWN) The method according to Claim 96, wherein the method further comprises:

configuring the device for perfusion management for placing in a new location in the human.

98. (WITHDRAWN) The method according to Claim 81, wherein the method further comprises:

configuring the device for perfusion management for placing in a circulatory system, an aorta, in a vena cava or in a nervous system.

99. (WITHDRAWN) The method according to Claim 81, wherein the method further comprises:

releasing an electric current or an electromagnetic radiation in proximity to a cell, a tissue, or an assembly of biological materials exhibiting shear strength.

100. (PREVIOUSLY PRESENTED) The system of Claim 2, wherein the proximal end piece and the one or more distal end pieces are configured to articulate at one or more joints of adjacent pieces.